Preliminary DRAFT Issaquah Creek Chinook Population - Tier I - Initial Habitat Project List
Includes Potential Restoration and Protection Projects by Reach.
Carey/Holder Creek Reaches

Carey Creek Reaches 1-4
Reach 1: Carey Creek from mouth to 276th St Crossing (culvert looks like juvenile barrier)
Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I251	1	new	**Fish Passage at 276th St. Crossing** - Investigate whether or not this crossing poses a barrier to fish passage and correct if is a barrier.		Culvert appears to be a juvenile Chinook barrier.		

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I252	1	Y	2f	**Carey/Holder/Issaquah Creek Confluence**: 120 acre site proposed for a conservation easement. Plan includes increased fenced buffers (100 ft for named tributaries and 50 ft. for unnamed tributaries), and restricted access to the riparian corridor. Same project in Issaquah Reach 12.			**H**	**H**
I253	1	Y	2c	**Habitat Protection:** Continue to implement Issaquah Creek and Lake Sammamish Waterways Program to protect best remaining habitat in Carey Creek Reaches 1-4.		Project is partially complete; one property protected in reach. Confluence reach proposed for conservation easement, funding being sought.	**H**	**H/M**

Reach 2: Carey Creek from 276th St Crossing (culvert looks like juvenile barrier) to 204th crossing (passable culvert)
Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	2		No projects identified at this time.				

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I254	2	Y	new	**Habitat Protection:** Continue to implement Issaquah Creek and Lake Sammamish Waterways Program to protect best remaining habitat in Carey Creek Reaches 1-4.			**H**	**H/M**

Reach 3: Carey Creek from 204th crossing (passable culvert) to Taylor Ditch confluence

Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I255	3	new	**Fish Passage Improvements:** Replace the culvert at 298th St. within Taylor Mountain Park, which is a partial barrier at low water.	$150,000	Site identified as potential mitigation for school being built nearby. Potentially $100k as mitigation.		

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas. Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I256	3	Y	new	**Habitat Protection:** Continue to implement Issaquah Creek and Lake Sammamish Waterways Program to protect best remaining habitat in Carey Creek Reaches 1-4.			**H**	**H/M**

Reach 4: Carey Creek from Taylor Ditch confluence to falls

Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	4		No projects identified at this time.				

Protection

Technical Hypothesis: *Habitat forming features (LWD, riparian function, and channel connectivity) that provide cover and refuge for critical life stages should be protected and maintained.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I257	4	Y	new	**Habitat Protection:** Continue to implement Issaquah Creek and Lake Sammamish Waterways Program to protect best remaining habitat in Carey Creek Reaches 1-4.			**H**	**H/M**
I258	4	Y	3a	**Forest Cover Protection:** Protect existing natural flow regime in the headwaters areas of Carey and Holder creeks, which are in the Tiger Mountain State Forest and Taylor Mountain County Forest vicinity, by acquiring forest property, development rights/conservation easements.		Supported by the WRIA 8 Flow Subcommittee's report on changes in hydrology in WRIA 8 that highlighted Upper Issaquah Creek as having minimal impact from land cover change, water withdrawal, and sewers. The report is included in the Salmon and Steelhead Habitat Limiting Factors Report for Cedar-Sammamish Basin in the chapter that discusses change in hydrologic regime. Most of area is already in protective ownership.	**L**	**H**

Holder Creek Reaches 1-3

Reach 1: Holder Creek from mouth to 276th St crossing (start forested)

Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	1		No projects identified at this time.				

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I259	1	Y	2f	**Carey/Holder/Issaquah Creek Confluence**: 120 acre site proposed for a conservation easement. Plan includes increased fenced buffers (100 ft for named tributaries and 50 ft. for unnamed tributaries), and restricted access to the riparian corridor. Same project in Issaquah Reach 12.	$1.3m (KC, SRFB, CFT)		**H**	**H**

Reach 2: Holder Creek from 276th St crossing (start forested) to change gradient

Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I260	2	new	**Prevent Future Sediment Events:** There is a beaver dam complex in the Taylor Mountain inholding with a history of failing of breaching which has caused large scale sediment events. Identify and implement restoration project to prevent future sedimentation problems.		Repeated failures of the beaver dam on this site has resulted in huge sedimentation events that were detectable all the way to the fish hatchery.		

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I261	2	Y	new	**Habitat Acquisition:** Acquire 80 acre inholding in Taylor Mountain Forest.			**L**	**H**

Reach 3: Holder Creek from change gradient to SR 18 crossing (described as partial barrier)

Restoration

Technical Hypothesis:

Project #	Reach #	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I262	3	new	**Fish Passage Improvements/ Highway 18:** Install a bridge at the Highway 18 crossing which is currently a partial fish passage barrier.		Since the Highway is being widened at this location, there may be funding to address problem.		

Protection

Technical Hypothesis: *Pool habitats that provide cover and refuge for critical life stages should be protected and maintained, starting with the protection of existing off-channel and pool areas.*

Project #	Reach #	Exist. Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
I263	3	Y	2b	**Habitat Protection:** Continue Issaquah Creek and Lake Sammamish Waterways Program to protect best remaining habitat, particularly in Holder Creek (inholding on Taylor and Tiger mountains).			**H**	**H/M**
I264	3	Y	3a	**Forest Cover Protection:** Protect existing natural flow regime in the headwaters areas of Carey and Holder creeks, which are in the Tiger Mountain State Forest and Taylor Mountain County Forest vicinity, by acquiring forest property, development rights/conservation easements. Also, provide enhanced incentives to retain and plant forest area environments.		Supported by the WRIA 8 Flow Subcommittee's report on changes in hydrology in WRIA 8 that highlighted Upper Issaquah Creek as having minimal impact from land cover change, water withdrawal, and sewers. The report is included in the Salmon and Steelhead Habitat Limiting Factors Report for Cedar-Sammamish Basin in the chapter that discusses change in hydrologic regime. Most of the area is already in protective ownership.	**L**	**H/M**